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SOURCE Radio, No 5, 1950, p 47.NORMAL TELEVISION RECEPTION IN USSR AT A DISTANCE OF 100 KILOMETERS

B. Fadeyev

In 1948, I constructed the LTK-6 television set described by A. Ya. Korniyenko in Radio, No 5, 1948. When I moved to Serpukhov in Moscow Oblast, I decided to attempt reception of television signals from the Moscow Television Center, a distance of about 100 km.

No alterations were necessary to receive the sound accompaniment, which, after a slight adjustment, was stable and loud. The most complicated part was reception of the video signals. My television set, which worked very well in Moscow, did not have much sensitivity despite the use of a special high-efficiency antenna (a loop dipole with a reflector and two directors). It was necessary to add two stages of amplification to bring the sensitivity of the receiver up to 150 mv (with an if pass band of 2.5-3 Mc). Special attention was paid to the adjustment accuracy of the video channel. An automatic transformer or stabilivolt can be used to maintain a stable line voltage.

After a few months, I was able regularly to receive both daytime and evening transmissions from the Moscow Television Center. Many of my comrades, persuaded by this example of good television reception at a great distance, began to build television sets. I venture to say that all radio amateurs living within a 100-km radius of Moscow could get reliable reception of transmissions from the Moscow Television Center by a simple modification of their sets and the use of high-efficiency antennas.

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